

WHAT IS CLAIMED IS:

1. A band saw comprising:
a continuous saw body; and
5 multiple saw teeth provided entirely on one of laterally opposite
edge portions of said saw body,
wherein said one of laterally opposite edge portions of said saw
body and said saw teeth are angled toward an inner side of said saw body
by creating a bend near a tooth base line of said saw body.

10 2. A band saw according to claim 1, wherein a projection
is formed on a tip of each saw tooth, and a width of each projection is
1.5-3.0 times as large as a thickness of said band saw.

15 3. A band saw according to claim 1, wherein a tip of each
saw tooth protrudes by 0.02 mm in a direction of a thickness of said band
saw from a surface of said saw body.

20 4. A band saw processing apparatus for obtaining a band
saw including a continuous saw body and multiple saw teeth provided
entirely on one of laterally opposite edge portions of said saw body,
wherein said one of laterally opposite edge portions of said saw body and
said saw teeth are angled toward an inner side of said saw body by creating
a bend near a tooth base line of said saw body, said apparatus comprising:

25 a first and a second roller that grasp said band saw from opposite
sides of a thickness thereof, said first roller exerting pressure on said band
saw from one of said opposite sides, and said second roller exerting
pressure on the band saw from an other of opposite sides,

30 wherein edges of said first and second rollers are positioned to be
offset from each other in an axial direction thereof, and said tooth base line

area of said saw body of said band saw is grasped between said edges of said first and second rollers so that said saw teeth and said edge portion of said saw body of said band saw are angled toward said inner side of said saw body.

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5. A band saw processing apparatus according to claim 4, wherein outer circumferential surfaces of said first and second rollers have opposite inclined configurations in the axial direction thereof, and wherein said saw tooth base line area of said base saw body is grasped by and
10 rolled between large-diameter edges of said first roller and said second rollers so that said saw teeth and said edge portion of said band saw body are caused to be angled toward the inner side of said saw body.

6. A band saw processing apparatus according to claim 4,
15 further comprising a support roller that is supported coaxially with the second roller, and is positioned to face the first roller via said band saw for supporting the band saw.

7. A method of manufacturing a band saw including a
20 continuous saw body and multiple saw teeth provided entirely on one of laterally opposite edge portions of said saw body, wherein said one of laterally opposite edge portions of said saw body and said saw teeth are angled toward an inner side of said saw body by creating a bend near a tooth base line of said saw body, said method comprising the steps of:

25 forming multiple saw teeth on a band saw plate having a long flat plate configuration;

welding two longitudinal ends of said band saw plate together to form an annular band saw;

bending said saw tooth base line area of said saw body toward said
30 inner side of said saw body; and then

shaping said saw teeth.

8. A band saw teeth setting method for a band saw having
a continuous saw body and multiple saw teeth provided entirely on one of
5 laterally opposite edge portions of said saw body, said method comprising
the steps of:

bending said one of laterally opposite edge portions of said
saw body and said saw tooth base line area toward said inner side of the
saw body when setting teeth for said saw band.

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